3.12 Parcel 51 – 750 Area, 500 Area, 600 Area, 1100 Area – Former Buildings

3.12.1 Site Description

Parcel 51 is located in the central portion of the MP and encompasses the 500 Area, 600 Area, 750 Area, and 1100 Area former buildings. Plan No. 506, "Gas and Fuel Storage Tanks Distribution System" dated January 22, 1956 (**Appendix G**), was reviewed for the MP as part of the Phase I ECP. The plan depicts numerous fuel oil USTs that existed within Parcel 51 in 1956 in association with the former buildings. Additional information pertaining to this parcel can be found in Section 4.4.3.2, Section 4.4.4.2, Section 4.4.4.3, Section 5.1.1.2.1, Section 5.2.1.1, Section 5.4, Section 5.4.2, and Appendix G of the Phase I ECP (1).

3.12.2 Previous Investigations

Numerous USTs associated with former and current buildings within the 500, 600, and 1100 Area have been removed under the FTMM UST program and are summarized within the FTMM Phase I ECP Report (1). A review of documented UST removal locations versus the location of former buildings within Parcel 51 was conducted. Based on this review, it was determined that no UST removals have been documented at the locations of numerous former buildings within Parcel 51 throughout the 750 Area (current motor pool), within the northern portion of the 1100 Area, and around the east and south perimeter of the 600 Area.

A soil investigation and remedial action was recently conducted in portions of the 400, 700, and 800 Bldg areas. The only portion of Parcel 51 that was included within this investigation was the southwestern corner of the parcel associated with Bldgs 787, 788, and 789 (34).

3.12.3 Site Investigation Sampling

In order to determine the absence/presence of formerly utilized USTs and the potential release from the USTs, geophysical surveys, soil sampling, and groundwater sampling were conducted throughout the 750 Area (current motor pool), within the northern portion of the 1100 Area, and around the east and south perimeter of the 600 Area.

Geophysical Investigation

An EM survey was conducted throughout the three identified former buildings areas to determine if USTs are present. Follow-up GPR surveys were conducted at anomalies identified from the EM surveys. **Section 2.1** summarizes the methodologies utilized during the geophysical surveys.

Geoprobe® Investigation

Geoprobe® soil samples were collected in October and November 2007, and groundwater samples were collected in November 2007 in Parcel 51 in order to investigate potential releases from historic USTs associated with the former 600, 750, and 1100 Area buildings. A total of 122 surface soil and 136 subsurface soil (including 12 duplicate samples) were collected from 122 distinct Geoprobe® borings (**Figure 3.12-1**). Soil boring locations were conducted on 100-ft centers. Surface soil samples for non-VO analysis were collected from the 0- to 6-inch interval bgs. For borings located in paved areas, non-VO surface soil samples were collected from the 0- to 6-inch interval directly below the pavement sub-base. Surface soil samples collected for VO analysis were collected from the 18- to 24-inch bgs interval. Subsurface soil samples were collected from the 6-inch interval directly above the water table from each boring. Due to high water table conditions encountered at three boring locations (grid locations G11, I6, and K7), subsurface soil samples were collected from the 18- to 24-inch bgs interval. No additional VO sample was collected as the sample interval coincided with the 18- to 24-inch surface soil VO sampling interval. Field screening of the soil boring cores was conducted using a PID and FID meter. Olfactory evidence of impacted soil was noted 6 ft bgs at boring location P51-G12. Two additional soil samples were collected based on elevated results from field screening tests at boring location 51-G12.

A total of 26 groundwater samples (including four duplicate samples) were collected from 22 distinct temporary wells (**Figure 3.12-1**). Temporary wells were installed along the downgradient boundaries of the soil boring grids and constructed of PVC and 5 ft of factory-slotted screen.

Table 3.12-1 presents a summary of field activities, and sample locations are provided on **Figure 3.12-1**. A summary of the analytical and sampling program, including sample IDs, collection dates, and analytical parameters, is provided in **Table 3.12-2**.

Table 3.12-1
Parcel 51 Sampling Location, Rationale and Analytical

Sample Location	Sample Media	Sample Location Rationale	Analytical Suite
Former Buildings Areas (11 Acres)	A geophysical survey was conducted in three areas throughout the parcel to determine the presence/absence of USTs associated with former buildings. The geophysical investigations consisted of an EM survey followed by targeted GPR surveys of anomalies identified by the EM survey. One survey was conducted around the east and south perimeter of the 600 Area to investigate potential USTs not addressed under previous removals and investigations; one survey was conducted in the footprint of former buildings in the 1100 Area; and one survey was conducted in the footprint of former buildings in the 750 Area (current motor pool) not addressed as part of the 700 Residential Communities Initiative project.		

Sample Location	Sample Media	Sample Location Rationale	Analytical Suite
51SS-A10 through 51SS-I12 (51 samples)	Surface soil	Soil samples were collected from the 0- to 6-inch bgs interval from Geoprobe® soil borings in a grid configuration (conducted on 100-ft center) to investigate the potential release from former heating oil USTs associated with the former buildings around the eastern and southern perimeter of the 600 Area. If the sample location was paved, the sample was collected from the 0- to 6-inch interval below the pavement sub-base.	TPHC, VO+10 (25% of TPHC > 1,000 mg/kg)
51SB-A10 through 51SB-I12 (57 samples – includes 4 duplicate samples)	Subsurface soil	Soil samples were collected from the 6-inch interval directly above the water table (ranging from 2.5 to 8 ft bgs) from each Geoprobe® soil boring in the grid (conducted on 100-ft centers) to investigate the potential release from former heating oil USTs associated with the former buildings around the eastern and southern perimeter of the 600 Area. Field screening of the entire Geoprobe® soil core was conducted using PID/FID meters.	TPHC, VO+10 (25% of TPHC > 1,000 mg/kg)
51SS-J1 through 51SS-K9 (18 samples)	Surface soil	Soil samples were collected from the 0- to 6-inch bgs interval from Geoprobe® soil borings in a grid configuration (conducted on 100-ft center) to investigate the potential release from former heating oil USTs associated with the former buildings in the 1100 Area (former Bldgs 1111 through 1118). If the sample location was paved, the sample was collected from the 0- to 6-inch interval below the pavement sub-base.	TPHC, VO+10 (25% of TPHC > 1,000 mg/kg)
51SB-J1 through 51SB-K9 (20 samples – includes 2 duplicate samples)	Subsurface soil	Soil samples were collected from the 6-inch interval directly above the water table (ranging from 2.5 to 9 ft bgs) from each Geoprobe® soil boring in the grid (conducted on 100-ft centers) to investigate the potential release from former heating oil USTs associated with the former buildings in the 1100 Area (former Bldgs 1111 through 1118). Field screening of the entire Geoprobe® soil core was conducted using PID/FID meters.	TPHC, VO+10 (25% of TPHC > 1,000 mg/kg)
51SS-L1 through 51SS-R9 (53 samples)	Surface soil	Soil samples were collected from the 0- to 6-inch bgs interval from Geoprobe® soil borings in a grid configuration (conducted on 100-ft center) to investigate the potential release from former heating oil USTs associated with the former buildings in the 750 Area. If the sample location was paved, the sample was collected from the 0- to 6-inch interval below the pavement sub-base.	TPHC, VO+10 (25% of TPHC > 1,000 mg/kg)
51SB-L1 through 51SB-R9 (59 samples – includes 6 duplicate samples)	Subsurface soil	Soil samples were collected from the 6-inch interval directly above the water table (ranging from 1 to 14.5 ft bgs) from each Geoprobe® soil boring in the grid (conducted on 100-ft centers) to investigate the potential release from former heating oil USTs associated with the former buildings southwest of Bldg 2700. Field screening of the entire Geoprobe® soil core was conducted using PID/FID meters.	TPHC, VO+10 (25% of TPHC > 1,000 mg/kg)

Sample Location	Sample Media	Sample Location Rationale	Analytical Suite
51GW-A10, A12, C12, E12, G12, I1, I3, I5, I10, I12, K1, K3, K5, K7, K9, L9, N9, P9, R3, R5, R7, R9 (26 samples – includes 4 duplicate samples)	Groundwater	Groundwater samples were collected from the specified Geoprobe® soil borings in the grid to investigate the potential release from former heating oil USTs associated with the former buildings.	VO+10, B/N+15

3.12.4 Site Investigation Results

Geophysical Survey Results

The EM survey identified a total of 74 target EM anomalies in the 750 Area. The survey areas are presented on **Figure 3.12-2**. This area was scanned with the EM-61 because of a large amount of surface metal, and the parking lots which comprise most of the area could only be cordoned off in small portions. The EM-61 towing rig was better suited for the necessary tight turns. Several areas in this parcel were scanned with the TW-6 only due to interference of the GPS signal by nearby buildings and trees and the presence of parked cars during the EM survey. No anomalies indicative of USTs were located within the TW-6 scanning areas. The results of the GPR/TW-6 follow-up scanning are listed in **Table 3.12-3**, and full results of the geophysical surveys are included in **Appendix A**. Targets located on the asphalt-covered portions within the 750 Area could not be scanned with the TW-6 due to suspected high metal content fill material; therefore, only GPR was utilized in these areas. In summary, GPR scanning of the 74 targets in the 750 Area revealed:

- Thirty-four targets that were associated with surface metal/debris (previously unaccounted for).
- Seven targets with moderate-amplitude near-surface point target reflections indicative of small buried debris; not indicative of USTs.
- Six targets with the moderate-amplitude parabolic scattered reflections indicative of scattered small debris.
- Three targets that are suspected to be associated with nearby utility features.
- Three targets with the characteristics of a utility.

- Eleven targets that could not be relocated with the TW-6 because the targets were too small to be re-occupied, and therefore are most likely scrap metallic debris, not USTs.

- One target scanned with GPR only, no GPR anomaly associated with EM anomaly.

- Nine targets with the high-amplitude parabolic reflections indicating a possible UST. The suspected USTs match up with former Bldgs 758, 759, 763, 764, 767, 768, 769, 771, and 790. Said buildings served as schools/general instrument buildings, non-housing structures, until the end of their life cycles. Supporting real property records are included in **Appendix I**.

The geophysical surveys identified a total of 49 target EM anomalies in the 600 and 1100 Areas. The survey areas are presented on **Figure 3.12-2**. Several locations were scanned with the TW-6 due to the presence of parked cars during the main EM survey; however, no TW-6 anomalies were detected. The results of the GPR/TW-6 follow-up scanning are listed in **Table 3.12-4**, and full results of the geophysical surveys are included in **Appendix A**. In summary, GPR scanning of the 49 targets revealed:

- Twenty-two targets that were associated with surface metal/debris (previously unaccounted for).

- Thirteen targets that could not be relocated with the TW-6 because the targets were terrain conductivity anomalies not associated with metallic objects, and therefore are not USTs.

- Six targets with the characteristics of a utility.

- Five targets with moderate-amplitude near-surface reflections indicative of small buried debris; not indicative of a UST.

- Two targets in the 1100 Area with the high-amplitude parabolic reflections indicating a possible UST. The suspected USTs match up with former Bldgs 1111 and 1112. Said buildings served as schools/general instrument buildings, non-housing structures, until the end of their life cycles. Supporting real property records are included in **Appendix I**.

- One target resulted from a parked car that was later scanned with TW-6 and with no resulting anomalies.

This parcel of FTMM has been previously developed and the land surface reworked multiple times throughout its history. The findings of the geophysical survey (the density and small size of anomalies) are consistent with the site history. A total of 11 suspected USTs were identified within Parcel 51 (nine in the 750 Area and two in the 1100 Area); the location of the suspected USTs is presented on **Figure 3.12-2**.

Geoprobe® Investigation Results

Surface and subsurface soil samples were analyzed for TPHC. Corresponding surface and subsurface soil samples were collected for contingent VO+10 analysis. Groundwater samples were analyzed for VO+10 and B/N+15.

Soil

In addition to the subsurface soil samples collected from the interval directly above the water table, two supplementary subsurface soil samples, P51-G12-D and P51-G12-D-DUP, were collected for TPHC and contingent VO analysis based on elevated field screening measurements. As shown in **Table 3.12-5**, TPHC was detected in 41 of the 122 surface soil samples and in 18 of the 137 subsurface soil samples. A total of six subsurface soil samples, P51-G12-D;DUP, P51-H12-C, P51-N3-C, and P51-O7-C;DUP, contained TPHC at concentrations greater than 1,000 mg/kg, and VO analysis was conducted (**Table 3.12-6**). No VOs or TPHC were detected in soil above the NJDEP NRDCSCC.

Groundwater

As presented in **Table 3.12-7**, a total of 11 VOs were detected at concentrations below NJDEP GWQC in groundwater samples collected from temporary wells at Parcel 51.

A total of eight B/Ns were detected in Parcel 51 groundwater samples. Of the eight B/Ns detected, two (2-methylnaphthalene and bis[2-ethylhexyl]phthalate) were detected at concentrations that exceeded NJDEP GWQC. 2-Methylnaphthalene was detected at a concentration exceeding the NJDEP GWQC of 30 μg/L in one groundwater sample (P51-G12) at a concentration of 40.51 μg/L and is considered a COC in groundwater. Bis(2-ethylhexyl)phthalate was detected at a concentration exceeding the NJDEP GWQC of 3 μg/L in three groundwater samples at concentrations ranging from 3.49 μg/L in P51-P9 to 4.47 μg/L in P51-K7. Bis(2-ethylhexyl)phthalate is present in a wide variety of plastic products, is commonly detected in field and laboratory QC samples, and was detected in the field blank associated with the Parcel 51 groundwater samples. Therefore, it is not considered a COC in groundwater at Parcel 51.

3.12.5 Summary and Conclusions

Eleven suspected USTs were identified during the geophysical survey. No constituents were identified above applicable NJDEP criteria in surface or subsurface soil. Soil and analytical results suggest that a release has not occurred. In light of the absence of evidence of a release to the environment, NFA for soil and the suspected USTs in Parcel 51 is recommended.

One COC, 2-methylnaphthalene, was detected in groundwater above the NJDEP GWQC. Further evaluation of 2-methylnaphthalene in groundwater is recommended.

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
BLANK	TRIP	TRIP BLANK-SO	10/31/07	-	--	--	X								
SOIL	GEOPROBE	Duplicate	10/31/07	-	--	--									Sample on chain, but not received by lab. No duplicate sample for this day.
SOIL	GEOPROBE	P51-I11-A	10/31/07	7:55	0.0	0.5	X								
SOIL	GEOPROBE	P51-I11-B	10/31/07	7:55	1.5	2.0	NA								
SOIL	GEOPROBE	P51-I11-C	10/31/07	8:05	3.5	4.0	X								
SOIL	GEOPROBE	P51-I9-A	10/31/07	8:25	0.0	0.5	X								
SOIL	GEOPROBE	P51-I9-B	10/31/07	8:25	1.5	2.0	NA								
SOIL	GEOPROBE	P51-I9-C	10/31/07	8:30	3.5	4.0	X								
SOIL	GEOPROBE	P51-I8-A	10/31/07	9:35	0.0	0.5	X								
SOIL	GEOPROBE	P51-I8-B	10/31/07	9:35	1.5	2.0	NA								
SOIL	GEOPROBE	P51-I8-C	10/31/07	9:40	3.5	4.0	X								
SOIL	GEOPROBE	P51-I7-A	10/31/07	9:55	0.0	0.5	X								
SOIL	GEOPROBE	P51-I7-B	10/31/07	9:55	1.5	2.0	NA								
SOIL	GEOPROBE	P51-I7-C	10/31/07	10:00	2.0	2.5	X								
SOIL	GEOPROBE	P51-I6-A	10/31/07	10:50	0.0	0.5	X								
SOIL	GEOPROBE	P51-I6-B	10/31/07	10:50	1.5	2.0	X								
SOIL	GEOPROBE	P51-I4-A	10/31/07	11:15	0.0	0.5	X								
SOIL	GEOPROBE	P51-I4-B	10/31/07	11:15	1.5	2.0	NA								
SOIL	GEOPROBE	P51-I4-C	10/31/07	11:25	2.0	2.5	X								
SOIL	GEOPROBE	P51-I2-A	10/31/07	11:40	0.0	0.5	X								
SOIL	GEOPROBE	P51-I2-B	10/31/07	11:40	1.5	2.0	NA								
SOIL	GEOPROBE	P51-I2-C	10/31/07	11:45	5.5	6.0	X								
SOIL	GEOPROBE	P51-H12-A	10/31/07	13:20	0.0	0.5	X								
SOIL	GEOPROBE	P51-H12-B	10/31/07	13:20	1.5	2.0	NA								
SOIL	GEOPROBE	P51-H12-C	10/31/07	14:00	4.0	8.0	X	X							
SOIL	GEOPROBE	P51-H11-A	10/31/07	14:20	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-H11-B	10/31/07	14:20	1.5	2.0	NA								

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-H11-C	10/31/07	14:30	4.5	5.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-H10-A	10/31/07	14:50	0.0	0.5	X								
SOIL	GEOPROBE	P51-H10-B	10/31/07	14:50	1.5	2.0	NA								
SOIL	GEOPROBE	P51-H10-C	10/31/07	15:00	3.5	4.0	X								
BLANK	FIELD	FIELD BLANK-SO	10/31/07	15:05	--	--	X	X							
SOIL	GEOPROBE	P51-H9-A	10/31/07	15:15	0.0	0.5	X								
SOIL	GEOPROBE	P51-H9-B	10/31/07	15:15	1.5	2.0	NA								
SOIL	GEOPROBE	P51-H9-C	10/31/07	15:25	5.0	5.5	X								
SOIL	GEOPROBE	P51-H8-A	10/31/07	15:40	0.0	0.5	X								
SOIL	GEOPROBE	P51-H8-B	10/31/07	15:40	1.5	2.0	NA								
SOIL	GEOPROBE	P51-H8-C	10/31/07	15:45	3.5	4.0	X								
SOIL	GEOPROBE	P51-H7-A	10/31/07	15:50	0.0	0.5	X								
SOIL	GEOPROBE	P51-H7-B	10/31/07	15:50	1.5	2.0	NA								
SOIL	GEOPROBE	P51-H7-C	10/31/07	16:00	3.0	3.5	X								
SOIL	GEOPROBE	P51-H6-A	10/31/07	16:10	0.0	0.5	X								
SOIL	GEOPROBE	P51-H6-B	10/31/07	16:10	1.5	2.0	NA								
SOIL	GEOPROBE	P51-H6-C	10/31/07	16:20	3.5	4.0	X								
BLANK	TRIP	TRIP BLANK-SO	11/01/07	-	--	--	NA								
SOIL	GEOPROBE	P51-H5-A	11/01/07	8:30	0.0	0.5	X								
SOIL	GEOPROBE	P51-H5-B	11/01/07	8:30	1.5	2.0	NA								
SOIL	GEOPROBE	P51-H5-C	11/01/07	8:50	5.0	5.5	X								
SOIL	GEOPROBE	P51-H4-A	11/01/07	9:10	0.0	0.5	X								
SOIL	GEOPROBE	P51-H4-B	11/01/07	9:10	1.5	2.0	NA								
SOIL	GEOPROBE	P51-H4-C	11/01/07	9:20	5.0	5.5	X								
SOIL	GEOPROBE	P51-H3-A	11/01/07	9:40	0.0	0.5	X								
SOIL	GEOPROBE	P51-H3-B	11/01/07	9:40	1.5	2.0	NA								
SOIL	GEOPROBE	P51-H3-C	11/01/07	9:50	2.0	2.5	X								
SOIL	GEOPROBE	P51-H2-A	11/01/07	10:00	0.0	0.5	X								

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-H2-B	11/01/07	10:00	1.5	2.0	NA								
SOIL	GEOPROBE	P51-H2-C	11/01/07	10:10	5.5	6.0	X								
SOIL	GEOPROBE	P51-H1-A	11/01/07	11:15	0.0	0.5	X								
SOIL	GEOPROBE	P51-H1-B	11/01/07	11:15	1.5	2.0	NA								
SOIL	GEOPROBE	P51-H1-C	11/01/07	11:25	3.0	3.5	X								
SOIL	GEOPROBE	P51-G11-A	11/01/07	13:25	0.0	0.5	X								
SOIL	GEOPROBE	P51-G11-B	11/01/07	13:25	1.5	2.0	X								
SOIL	GEOPROBE	P51-G10-A	11/01/07	13:50	0.0	0.5	X								
SOIL	GEOPROBE	P51-G10-B	11/01/07	13:50	1.5	2.0	NA								
SOIL	GEOPROBE	P51-G10-C	11/01/07	14:00	3.5	4.0	X								
SOIL	GEOPROBE	P51-G9-A	11/01/07	14:05	0.0	0.5	X								
SOIL	GEOPROBE	P51-G9-B	11/01/07	14:05	1.5	2.0	NA								
SOIL	GEOPROBE	P51-G9-C	11/01/07	14:15	3.0	3.5	X								
SOIL	GEOPROBE	P51-G8-A	11/01/07	14:30	0.0	0.5	X								
SOIL	GEOPROBE	P51-G8-B	11/01/07	14:30	1.5	2.0	NA								
SOIL	GEOPROBE	P51-G8-C	11/01/07	14:40	4.5	5.0	X								
SOIL	GEOPROBE	P51-G7-A	11/01/07	15:05	0.0	0.5	X								
SOIL	GEOPROBE	P51-G7-B	11/01/07	15:05	1.5	2.0	NA								
SOIL	GEOPROBE	P51-G7-C	11/01/07	15:25	4.5	5.0	X								
SOIL	GEOPROBE	P51-G7-C DUPLICATE	11/01/07	15:25	4.5	5.0	X								
BLANK	FIELD	FIELD BLANK-SO	11/01/07	15:30	--	--	X								
BLANK	TRIP	TRIP BLANK-SO	11/02/07	-	--	--	NA								
SOIL	GEOPROBE	P51-F12-A	11/02/07	8:20	0.0	0.5	X								
SOIL	GEOPROBE	P51-F12-B	11/02/07	8:20	1.5	2.0	NA								
SOIL	GEOPROBE	P51-F12-C	11/02/07	8:30	3.5	4.0	X								
SOIL	GEOPROBE	P51-F11-A	11/02/07	8:50	0.0	0.5	X								
SOIL	GEOPROBE	P51-F11-B	11/02/07	8:50	1.5	2.0	NA								
SOIL	GEOPROBE	P51-F11-C	11/02/07	9:00	4.5	5.0	X								
SOIL	GEOPROBE	P51-F10-A	11/02/07	9:25	0.0	0.5	X								

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-F10-B	11/02/07	9:25	1.5	2.0	NA								
SOIL	GEOPROBE	P51-F10-C	11/02/07	9:35	3.5	4.0	X								
SOIL	GEOPROBE	P51-F9-A	11/02/07	9:55	0.0	0.5	X								
SOIL	GEOPROBE	P51-F9-B	11/02/07	9:55	1.5	2.0	NA								
SOIL	GEOPROBE	P51-F9-C	11/02/07	10:05	5.0	5.5	X								
SOIL	GEOPROBE	P51-F8-A	11/02/07	11:20	0.0	0.5	X								
SOIL	GEOPROBE	P51-F8-B	11/02/07	11:20	1.5	2.0	NA								
SOIL	GEOPROBE	P51-F8-C	11/02/07	11:30	5.0	5.5	X								
SOIL	GEOPROBE	P51-F7-A	11/02/07	11:35	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-F7-B	11/02/07	11:35	1.5	2.0	NA								
SOIL	GEOPROBE	P51-F7-C	11/02/07	13:55	5.5	6.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-E11-A	11/02/07	14:25	0.5	1.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-E11-B	11/02/07	14:25	1.5	2.0	NA								
SOIL	GEOPROBE	P51-E11-C	11/02/07	14:40	6.0	6.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-E11-C DUPLICATE	11/02/07	14:40	6.0	6.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
BLANK	FIELD	FIELD BLANK-SO	11/02/07	14:45	--	--	X								
SOIL	GEOPROBE	P51-E10-A	11/02/07	15:05	0.5	1.0	X								
SOIL	GEOPROBE	P51-E10-B	11/02/07	15:05	1.5	2.0	NA								
SOIL	GEOPROBE	P51-E10-C	11/02/07	15:10	3.5	4.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-D12-A	11/02/07	15:35	0.0	0.5	X								
SOIL	GEOPROBE	P51-D12-B	11/02/07	15:35	1.5	2.0	X								TPHC not necessary for this sample.

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-D12-C	11/02/07	15:40	2.0	2.5	X								
SOIL	GEOPROBE	P51-D11-A	11/02/07	15:55	0.5	1.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-D11-B	11/02/07	15:55	1.5	2.0	NA								
SOIL	GEOPROBE	P51-D11-C	11/02/07	16:20	5.5	6.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
BLANK	TRIP	TRIP BLANK-SO	11/05/07	-	--	--	NA								
SOIL	GEOPROBE	P51-I12-A	11/05/07	8:30	0.0	0.5	X								
SOIL	GEOPROBE	P51-I12-B	11/05/07	8:30	1.5	2.0	NA								
SOIL	GEOPROBE	P51-I12-C	11/05/07	8:40	3.0	3.5	X								
SOIL	GEOPROBE	P51-I10-A	11/05/07	9:15	0.0	0.5	X								
SOIL	GEOPROBE	P51-I10-B	11/05/07	9:15	1.5	2.0	NA								
SOIL	GEOPROBE	P51-I10-C	11/05/07	9:20	3.5	4.0	X								
SOIL	GEOPROBE	P51-I5-A	11/05/07	9:50	0.0	0.5	X								
SOIL	GEOPROBE	P51-I5-B	11/05/07	9:50	1.5	2.0	NA								
SOIL	GEOPROBE	P51-I5-C	11/05/07	9:55	3.5	4.0	X								
SOIL	GEOPROBE	P51-I3-A	11/05/07	10:35	0.0	0.5	X								
SOIL	GEOPROBE	P51-I3-B	11/05/07	10:35	1.5	2.0	NA								
SOIL	GEOPROBE	P51-I3-C	11/05/07	10:40	2.5	3.0	X								
SOIL	GEOPROBE	P51-I1-A	11/05/07	10:55	0.0	0.5	X								
SOIL	GEOPROBE	P51-I1-B	11/05/07	10:55	1.5	2.0	NA								
SOIL	GEOPROBE	P51-I1-C	11/05/07	11:05	6.0	6.5	X								
SOIL	GEOPROBE	P51-D10-A	11/05/07	11:30	0.5	1.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-D10-B	11/05/07	11:30	1.5	2.0	NA								
SOIL	GEOPROBE	P51-D10-C	11/05/07	11:40	6.0	6.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-C11-A	11/05/07	13:30	0.0	0.5	X								

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-C11-B	11/05/07	13:30	1.5	2.0	NA								
SOIL	GEOPROBE	P51-C11-C	11/05/07	13:45	5.0	5.5	X								
SOIL	GEOPROBE	P51-C10-A	11/05/07	14:15	0.0	0.5	X								
SOIL	GEOPROBE	P51-C10-B	11/05/07	14:15	1.5	2.0	NA								
SOIL	GEOPROBE	P51-C10-C	11/05/07	14:25	6.0	6.5	X								
BLANK	FIELD	FIELD BLANK-SO	11/05/07	14:30	--	--	X								
SOIL	GEOPROBE	P51-B12-A	11/05/07	15:20	0.0	0.5	X								
SOIL	GEOPROBE	P51-B12-B	11/05/07	15:20	1.5	2.0	NA								
SOIL	GEOPROBE	P51-B12-C	11/05/07	15:35	5.0	5.5	X								
SOIL	GEOPROBE	P51-B12-C DUPLICATE	11/05/07	15:35	5.0	5.5	X								
SOIL	GEOPROBE	P51-B11-A	11/05/07	16:05	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-B11-B	11/05/07	16:05	1.5	2.0	NA								
SOIL	GEOPROBE	P51-B11-C	11/05/07	16:15	7.0	7.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
BLANK	TRIP	TRIP BLANK-SO	11/06/07	-	--	--		X							
SOIL	GEOPROBE	P51-G12-A	11/06/07	8:20	0.0	0.5	X								
SOIL	GEOPROBE	P51-G12-B	11/06/07	8:20	1.5	2.0	NA								
SOIL	GEOPROBE	P51-G12-C	11/06/07	8:35	4.5	5.0	X								
SOIL	GEOPROBE	P51-G12-D	11/06/07	8:55	6.0	6.5	X	X							TPHC collected due to elevated field screening results.
SOIL	GEOPROBE	P51-G12-D DUPLICATE	11/06/07	8:55	6.0	6.5	X	X							
SOIL	GEOPROBE	P51-E12-A	11/06/07	9:15	0.0	0.5	X								
SOIL	GEOPROBE	P51-E12-B	11/06/07	9:15	1.5	2.0	NA								
SOIL	GEOPROBE	P51-E12-C	11/06/07	9:30	5.5	6.0	X								
SOIL	GEOPROBE	P51-C12-A	11/06/07	9:55	0.0	0.5	X								
SOIL	GEOPROBE	P51-C12-B	11/06/07	9:55	1.5	2.0	NA								
SOIL	GEOPROBE	P51-C12-C	11/06/07	10:15	6.0	6.5	X								
SOIL	GEOPROBE	P51-A12-A	11/06/07	11:10	0.0	0.5	X								

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-A12-B	11/06/07	11:10	1.5	2.0	NA								
SOIL	GEOPROBE	P51-A12-C	11/06/07	11:35	5.0	5.5	X								
SOIL	GEOPROBE	P51-A11-A	11/06/07	13:05	0.0	0.5	X								
SOIL	GEOPROBE	P51-A11-B	11/06/07	13:05	1.5	2.0	NA								
SOIL	GEOPROBE	P51-A11-C	11/06/07	13:20	6.0	6.5	X								
SOIL	GEOPROBE	P51-A10-A	11/06/07	13:45	0.0	0.5	X								
SOIL	GEOPROBE	P51-A10-B	11/06/07	13:45	1.5	2.0	NA								
SOIL	GEOPROBE	P51-A10-C	11/06/07	14:00	5.5	6.0	X								
SOIL	GEOPROBE	P51-B10-A	11/06/07	14:55	0.5	1.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-B10-B	11/06/07	14:55	1.5	2.0	NA								
SOIL	GEOPROBE	P51-B10-C	11/06/07	15:10	7.5	8.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
BLANK	FIELD	FIELD BLANK-SO	11/06/07	15:25	--	--	X	X							
BLANK	TRIP	TRIP BLANK-AQ	11/06/07	8:00	--	--		X							
BLANK	FIELD	FIELD BLANK-AQ	11/06/07	11:00	--	--		X	X						
GW	GEOPROBE	P51-I1	11/06/07	11:30	5.0	10.0		X	X						
GW	GEOPROBE	P51-I3	11/06/07	12:00	3.0	8.0		X	X						
GW	GEOPROBE	P51-I3 DUPLICATE	11/06/07	12:00	3.0	8.0		X	X						
GW	GEOPROBE	P51-I5	11/06/07	12:30	3.0	8.0		X	X						
GW	GEOPROBE	P51-I10	11/06/07	13:00	3.0	8.0		X	X						
GW	GEOPROBE	P51-I12	11/06/07	13:30	3.0	8.0		X	X						
BLANK	TRIP	TRIP BLANK-SO	11/08/07	-	--	--	NA								
SOIL	GEOPROBE	P51-K1-A	11/08/07	8:10	0.0	0.5	X								
SOIL	GEOPROBE	P51-K1-B	11/08/07	8:10	1.5	2.0	NA								
SOIL	GEOPROBE	P51-K1-C	11/08/07	8:20	2.5	3.0	X								
SOIL	GEOPROBE	P51-K2-A	11/08/07	8:40	0.0	0.5	X								
SOIL	GEOPROBE	P51-K2-B	11/08/07	8:40	1.5	2.0	NA								

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-K2-C	11/08/07	8:45	2.5	3.0	X								
SOIL	GEOPROBE	P51-K3-A	11/08/07	9:20	0.0	0.5	X								
SOIL	GEOPROBE	P51-K3-B	11/08/07	9:20	1.5	2.0	NA								
SOIL	GEOPROBE	P51-K3-C	11/08/07	9:35	6.5	7.0	X								
SOIL	GEOPROBE	P51-K4-A	11/08/07	10:00	0.0	0.5	X								
SOIL	GEOPROBE	P51-K4-B	11/08/07	10:00	1.5	2.0	NA								
SOIL	GEOPROBE	P51-K4-C	11/08/07	10:20	5.5	6.0	X								
SOIL	GEOPROBE	P51-K5-A	11/08/07	10:40	0.0	0.5	X								
SOIL	GEOPROBE	P51-K5-B	11/08/07	10:40	1.5	2.0	NA								
SOIL	GEOPROBE	P51-K5-C	11/08/07	10:50	2.0	2.5	X								
SOIL	GEOPROBE	P51-K6-A	11/08/07	11:15	0.0	0.5	X								
SOIL	GEOPROBE	P51-K6-B	11/08/07	11:15	1.5	2.0	NA								
SOIL	GEOPROBE	P51-K6-C	11/08/07	11:20	6.5	7.0	X								
SOIL	GEOPROBE	P51-K6-C DUPLICATE	11/08/07	11:20	6.5	7.0	X								
BLANK	FIELD	FIELD BLANK-SO	11/08/07	13:30	--	--	X								
SOIL	GEOPROBE	P51-K7-A	11/08/07	14:00	0.0	0.5	X								
SOIL	GEOPROBE	P51-K7-B	11/08/07	14:00	1.5	2.0	X								No C sample. High Water table.
SOIL	GEOPROBE	P51-K8-A	11/08/07	14:40	0.0	0.5	X								
SOIL	GEOPROBE	P51-K8-B	11/08/07	14:40	1.5	2.0	NA								
SOIL	GEOPROBE	P51-K8-C	11/08/07	14:55	6.5	7.0	X								
SOIL	GEOPROBE	P51-K9-A	11/08/07	15:10	0.0	0.5	X								
SOIL	GEOPROBE	P51-K9-B	11/08/07	15:10	1.5	2.0	NA								
SOIL	GEOPROBE	P51-K9-C	11/08/07	15:30	6.5	7.0	X								
BLANK	TRIP	TRIP BLANK-AQ	11/08/07	7:00	--	--		X							
BLANK	FIELD	FIELD BLANK-AQ	11/08/07	9:30	--	--		X	X						
GW	GEOPROBE	P51-A10	11/08/07	12:00	5.0	10		X	X						
GW	GEOPROBE	P51-A12	11/08/07	11:30	5.0	10		X	X						
GW	GEOPROBE	P51-C12	11/08/07	11:00	5.0	10		X	X						
GW	GEOPROBE	P51-C12 DUPLICATE	11/08/07	11:00	5.0	10		X	X						

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
GW	GEOPROBE	P51-E12	11/08/07	10:30	5.0	10		X	X						
GW	GEOPROBE	P51-G12	11/08/07	10:00	5.0	10		X	X						
BLANK	TRIP	TRIP BLANK-SO	11/09/07	-	--	--	NA								
SOIL	GEOPROBE	P51-J1-A	11/09/07	8:00	0.0	0.5	X								
SOIL	GEOPROBE	P51-J1-B	11/09/07	8:00	1.5	2.0	NA								
SOIL	GEOPROBE	P51-J1-C	11/09/07	8:25	8.5	9.0	X								
SOIL	GEOPROBE	P51-J2-A	11/09/07	8:45	0.0	0.5	X								
SOIL	GEOPROBE	P51-J2-B	11/09/07	8:45	1.5	2.0	NA								
SOIL	GEOPROBE	P51-J2-C	11/09/07	8:55	7.0	7.5	X								
SOIL	GEOPROBE	P51-J3-A	11/09/07	9:15	0.0	0.5	X								
SOIL	GEOPROBE	P51-J3-B	11/09/07	9:15	1.5	2.0	NA								
SOIL	GEOPROBE	P51-J3-C	11/09/07	9:35	6.5	7.0	X								
SOIL	GEOPROBE	P51-J4-A	11/09/07	9:50	0.0	0.5	X								
SOIL	GEOPROBE	P51-J4-B	11/09/07	9:50	1.5	2.0	NA								
SOIL	GEOPROBE	P51-J4-C	11/09/07	10:00	3.0	3.5	X								
SOIL	GEOPROBE	P51-J5-A	11/09/07	10:15	0.0	0.5	X								
SOIL	GEOPROBE	P51-J5-B	11/09/07	10:15	1.5	2.0	NA								
SOIL	GEOPROBE	P51-J5-C	11/09/07	10:25	7.0	7.5	X								
BLANK	FIELD	FIELD BLANK-SO	11/09/07	10:40	--	--	X								
SOIL	GEOPROBE	P51-J6-A	11/09/07	11:00	0.0	0.5	X								
SOIL	GEOPROBE	P51-J6-B	11/09/07	11:00	1.5	2.0	NA								
SOIL	GEOPROBE	P51-J6-C	11/09/07	11:15	7.0	7.5	X								
SOIL	GEOPROBE	P51-J6-C DUPLICATE	11/09/07	11:15	7.0	7.5	X								
SOIL	GEOPROBE	P51-J7-A	11/09/07	11:40	0.0	0.5	X								
SOIL	GEOPROBE	P51-J7-B	11/09/07	11:40	1.5	2.0	NA								
SOIL	GEOPROBE	P51-J7-C	11/09/07	11:45	7.0	7.5	X								
SOIL	GEOPROBE	P51-J8-A	11/09/07	13:10	0.0	0.5	X								
SOIL	GEOPROBE	P51-J8-B	11/09/07	13:10	1.5	2.0	NA								
SOIL	GEOPROBE	P51-J8-C	11/09/07	13:20	7.5	8.0	X								

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-J9-A	11/09/07	13:45	0.0	0.5	X								
SOIL	GEOPROBE	P51-J9-B	11/09/07	13:45	1.5	2.0	NA								
SOIL	GEOPROBE	P51-J9-C	11/09/07	14:00	7.0	7.5	X								
BLANK	TRIP	TRIP BLANK-AQ	11/10/07	8:00	--	--		X							
BLANK	FIELD	FIELD BLANK-AQ	11/10/07	10:20	--	--		X	X						
GW	GEOPROBE	P51-K1	11/10/07	11:00	10.0	15.0		X	X						
GW	GEOPROBE	P51-K3	11/10/07	11:30	10.0	15.0		X	X						
GW	GEOPROBE	P51-K5	11/10/07	12:00	10.0	15.0		X	X						
GW	GEOPROBE	P51-K7	11/10/07	10:30	10.0	15.0		X	X						
GW	GEOPROBE	P51-K7 DUPLICATE	11/10/07	10:30	10.0	15.0		X	X						
GW	GEOPROBE	P51-K9	11/10/07	12:30	10.0	15.0		X	X						
BLANK	TRIP	TRIP BLANK-SO	11/13/07	-	--	--	NA								
SOIL	GEOPROBE	P51-L1-A	11/13/07	8:50	0.0	0.5	X								
SOIL	GEOPROBE	P51-L1-B	11/13/07	8:50	1.5	2.0	NA								
SOIL	GEOPROBE	P51-L1-C	11/13/07	9:10	5.5	6.0	X								
SOIL	GEOPROBE	P51-L2-A	11/13/07	9:25	0.0	0.5	X								
SOIL	GEOPROBE	P51-L2-B	11/13/07	9:25	1.5	2.0	NA								
SOIL	GEOPROBE	P51-L2-C	11/13/07	9:35	5.0	5.5	X								
SOIL	GEOPROBE	P51-L3-A	11/13/07	10:05	0.0	0.5	X								
SOIL	GEOPROBE	P51-L3-B	11/13/07	10:05	1.5	2.0	NA								
SOIL	GEOPROBE	P51-L3-C	11/13/07	10:20	5.5	6.0	X								
SOIL	GEOPROBE	P51-L4-A	11/13/07	10:55	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-L4-B	11/13/07	10:55	1.5	2.0	NA								
SOIL	GEOPROBE	P51-L4-C	11/13/07	11:05	7.5	8.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-L5-A	11/13/07	13:15	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-L5-B	11/13/07	13:15	1.5	2.0	NA								
SOIL	GEOPROBE	P51-L5-C	11/13/07	13:25	7.5	8.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-L6-A	11/13/07	14:00	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-L6-B	11/13/07	14:00	1.5	2.0	NA								
SOIL	GEOPROBE	P51-L6-C	11/13/07	14:30	4.5	5.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-L7-A	11/13/07	15:10	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-L7-B	11/13/07	15:10	1.5	2.0	NA								
SOIL	GEOPROBE	P51-L7-C	11/13/07	15:20	7.0	7.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-L7-C DUPLICATE	11/13/07	15:20	6.0	6.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
BLANK	FIELD	FIELD BLANK-SO	11/13/07	15:30	--	--	X								
SOIL	GEOPROBE	P51-L8-A	11/13/07	15:50	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-L8-B	11/13/07	15:50	1.5	2.0	NA								
SOIL	GEOPROBE	P51-L8-C	11/13/07	16:00	4.0	4.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
BLANK	TRIP	TRIP BLANK-SO	11/14/07	-	--	--	NA								
SOIL	GEOPROBE	P51-M1-A	11/14/07	7:55	0.0	0.5	X								
SOIL	GEOPROBE	P51-M1-B	11/14/07	7:55	1.5	2.0	NA								
SOIL	GEOPROBE	P51-M1-C	11/14/07	8:05	4.5	5.0	X								
SOIL	GEOPROBE	P51-M2-A	11/14/07	8:30	0.0	0.5	X								
SOIL	GEOPROBE	P51-M2-B	11/14/07	8:30	1.5	2.0	NA								

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-M2-C	11/14/07	8:40	5.0	5.5	X								
SOIL	GEOPROBE	P51-M3-A	11/14/07	9:20	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-M3-B	11/14/07	9:20	1.5	2.0	NA								
SOIL	GEOPROBE	P51-M3-C	11/14/07	9:30	4.0	4.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-M4-A	11/14/07	10:05	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-M4-B	11/14/07	10:05	1.5	2.0	NA								
SOIL	GEOPROBE	P51-M4-C	11/14/07	10:15	7.5	8.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-M5-A	11/14/07	10:40	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-M5-B	11/14/07	10:40	1.5	2.0	NA								
SOIL	GEOPROBE	P51-M5-C	11/14/07	10:50	7.0	7.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-M6-A	11/14/07	11:15	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-M6-B	11/14/07	11:15	1.5	2.0	NA								
SOIL	GEOPROBE	P51-M6-C	11/14/07	11:25	7.5	8.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-M6-C DUPLICATE	11/14/07	11:25	7.5	8.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
BLANK	FIELD	FIELD BLANK-SO	11/14/07	11:30	--	--	X								
BLANK	TRIP	TRIP BLANK-SO	11/15/07	-	--	--		X							

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-M7-A	11/15/07	7:45	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-M7-B	11/15/07	7:45	1.5	2.0	NA								
SOIL	GEOPROBE	P51-M7-C	11/15/07	8:00	7.5	8.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-M8-A	11/15/07	8:25	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-M8-B	11/15/07	8:25	1.5	2.0	NA								
SOIL	GEOPROBE	P51-M8-C	11/15/07	8:35	7.0	7.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-M9-A	11/15/07	9:00	0.0	0.5	X								
SOIL	GEOPROBE	P51-M9-B	11/15/07	9:00	1.5	2.0	NA								
SOIL	GEOPROBE	P51-M9-C	11/15/07	9:10	5.0	5.5	X								
SOIL	GEOPROBE	P51-N1-A	11/15/07	9:45	0.0	0.5	X								
SOIL	GEOPROBE	P51-N1-B	11/15/07	9:45	1.5	2.0	NA								
SOIL	GEOPROBE	P51-N1-C	11/15/07	9:50	3.0	3.5	X								
SOIL	GEOPROBE	P51-N2-A	11/15/07	10:10	0.0	0.5	X								
SOIL	GEOPROBE	P51-N2-B	11/15/07	10:10	1.5	2.0	NA								
SOIL	GEOPROBE	P51-N2-C	11/15/07	10:20	6.5	7.0	X								
SOIL	GEOPROBE	P51-N3-A	11/15/07	10:35	0.0	0.5	X								
SOIL	GEOPROBE	P51-N3-B	11/15/07	10:35	1.5	2.0	NA								
SOIL	GEOPROBE	P51-N3-C	11/15/07	10:40	5.5	6.0	X	X							
SOIL	GEOPROBE	P51-N4-A	11/15/07	11:00	0.0	0.5	X								
SOIL	GEOPROBE	P51-N4-B	11/15/07	11:00	1.5	2.0	NA								
SOIL	GEOPROBE	P51-N4-C	11/15/07	11:10	7.0	7.5	X								
SOIL	GEOPROBE	P51-N5-A	11/15/07	11:25	0.0	0.5	X								
SOIL	GEOPROBE	P51-N5-B	11/15/07	11:25	1.5	2.0	NA								
SOIL	GEOPROBE	P51-N5-C	11/15/07	11:35	7.0	7.5	X								

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-N5-C DUPLICATE	11/15/07	11:35	7.0	7.5	X								
SOIL	GEOPROBE	P51-N6-A	11/15/07	13:10	0.0	0.5	X								
SOIL	GEOPROBE	P51-N6-B	11/15/07	13:10	1.5	2.0	NA								
SOIL	GEOPROBE	P51-N6-C	11/15/07	13:15	6.5	7.0	X								
SOIL	GEOPROBE	P51-N7-A	11/15/07	13:35	0.0	0.5	X								
SOIL	GEOPROBE	P51-N7-B	11/15/07	13:35	1.5	2.0	NA								
SOIL	GEOPROBE	P51-N7-C	11/15/07	13:40	6.5	7.0	X								
SOIL	GEOPROBE	P51-N8-A	11/15/07	14:00	0.0	0.5	X								
SOIL	GEOPROBE	P51-N8-B	11/15/07	14:00	1.5	2.0	NA								
SOIL	GEOPROBE	P51-N8-C	11/15/07	14:05	3.0	3.5	X								
BLANK	FIELD	FIELD BLANK-SO	11/15/07	14:10	--	--	X	X							
BLANK	TRIP	TRIP BLANK-SO	11/16/07	-	--	--	NA								
SOIL	GEOPROBE	P51-R3-A	11/16/07	8:00	0.0	0.5	X								
SOIL	GEOPROBE	P51-R3-B	11/16/07	8:00	1.5	2.0	NA								
SOIL	GEOPROBE	P51-R3-C	11/16/07	8:35	14.0	14.5	X								
SOIL	GEOPROBE	P51-R5-A	11/16/07	8:50	0.0	0.5	X								
SOIL	GEOPROBE	P51-R5-B	11/16/07	8:50	1.5	2.0	NA								
SOIL	GEOPROBE	P51-R5-C	11/16/07	9:15	11.0	11.5	X								
SOIL	GEOPROBE	P51-R7-A	11/16/07	10:00	0.0	0.5	X								
SOIL	GEOPROBE	P51-R7-B	11/16/07	10:00	1.5	2.0	NA								
SOIL	GEOPROBE	P51-R7-C	11/16/07	10:30	9.5	10.0	X								
SOIL	GEOPROBE	P51-R9-A	11/16/07	11:00	0.0	0.5	X								
SOIL	GEOPROBE	P51-R9-B	11/16/07	11:00	1.5	2.0	NA								
SOIL	GEOPROBE	P51-R9-C	11/16/07	11:15	11.5	12.0	X								
SOIL	GEOPROBE	P51-P9-A	11/16/07	12:45	0.0	0.5	X								
SOIL	GEOPROBE	P51-P9-B	11/16/07	12:45	1.5	2.0	NA								
SOIL	GEOPROBE	P51-P9-C	11/16/07	13:00	5.0	5.5	X								
SOIL	GEOPROBE	P51-N9-A	11/16/07	13:40	0.0	0.5	X								
SOIL	GEOPROBE	P51-N9-B	11/16/07	13:40	1.5	2.0	NA								

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-N9-C	11/16/07	13:55	7.5	8.0	X								
SOIL	GEOPROBE	P51-L9-A	11/16/07	14:15	0.0	0.5	X								
SOIL	GEOPROBE	P51-L9-B	11/16/07	14:15	1.5	2.0	NA								
SOIL	GEOPROBE	P51-L9-C	11/16/07	14:30	3.5	4.0	X								
BLANK	FIELD	FIELD BLANK-SO	11/16/07	14:45	--	--	X								
SOIL	GEOPROBE	P51-O1-A	11/16/07	15:00	0.0	0.5	X								
SOIL	GEOPROBE	P51-O1-B	11/16/07	15:00	1.5	2.0	NA								
SOIL	GEOPROBE	P51-O1-C	11/16/07	15:15	11.0	11.5	X								
SOIL	GEOPROBE	P51-O1-C DUPLICATE	11/16/07	15:15	11.0	11.5	X								
BLANK	TRIP	TRIP BLANK-SO	11/17/07	-	--	--	NA								
SOIL	GEOPROBE	P51-R4-A	11/17/07	7:40	0.0	0.5	X								
SOIL	GEOPROBE	P51-R4-B	11/17/07	7:40	1.5	2.0	NA								
SOIL	GEOPROBE	P51-R4-C	11/17/07	8:10	11.5	12.0	X								
SOIL	GEOPROBE	P51-R6-A	11/17/07	8:25	0.0	0.5	X								
SOIL	GEOPROBE	P51-R6-B	11/17/07	8:25	1.5	2.0	NA								
SOIL	GEOPROBE	P51-R6-C	11/17/07	8:30	5.0	5.5	X								
SOIL	GEOPROBE	P51-R8-A	11/17/07	8:45	0.0	0.5	X								
SOIL	GEOPROBE	P51-R8-B	11/17/07	8:45	1.5	2.0	NA								
SOIL	GEOPROBE	P51-R8-C	11/17/07	9:05	0.5	1.0	X								
SOIL	GEOPROBE	P51-Q3-A	11/17/07	9:20	0.0	0.5	X								
SOIL	GEOPROBE	P51-Q3-B	11/17/07	9:20	1.5	2.0	NA								
SOIL	GEOPROBE	P51-Q3-C	11/17/07	9:45	11.0	11.5	X								
SOIL	GEOPROBE	P51-Q4-A	11/17/07	9:55	0.0	0.5	X								
SOIL	GEOPROBE	P51-Q4-B	11/17/07	9:55	1.5	2.0	NA								
SOIL	GEOPROBE	P51-Q4-C	11/17/07	10:35	13.0	13.5	X								
SOIL	GEOPROBE	P51-Q5-A	11/17/07	10:50	0.0	0.5	X								
SOIL	GEOPROBE	P51-Q5-B	11/17/07	10:50	1.5	2.0	NA								
SOIL	GEOPROBE	P51-Q5-C	11/17/07	10:55	4.0	4.5	X								
SOIL	GEOPROBE	P51-Q6-A	11/17/07	11:15	0.0	0.5	X								

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-Q6-B	11/17/07	11:15	1.5	2.0	NA								
SOIL	GEOPROBE	P51-Q6-C	11/17/07	11:30	4.5	5.0	X								
BLANK	FIELD	FIELD BLANK-SO	11/17/07	11:25	--	--	X								
SOIL	GEOPROBE	P51-Q7-A	11/17/07	11:50	0.0	0.5	X								
SOIL	GEOPROBE	P51-Q7-B	11/17/07	11:50	1.5	2.0	NA								
SOIL	GEOPROBE	P51-Q7-C	11/17/07	12:00	7.5	8.0	X								
SOIL	GEOPROBE	P51-Q7-C DUPLICATE	11/17/07	12:00	7.5	8.0	X								
SOIL	GEOPROBE	P51-Q8-A	11/17/07	12:25	0.0	0.5	X								
SOIL	GEOPROBE	P51-Q8-B	11/17/07	12:25	1.5	2.0	NA								
SOIL	GEOPROBE	P51-Q8-C	11/17/07	12:30	5.0	5.5	X								
SOIL	GEOPROBE	P51-Q9-A	11/17/07	12:40	0.5	1.0	X								
SOIL	GEOPROBE	P51-Q9-B	11/17/07	12:40	1.5	2.0	NA								
SOIL	GEOPROBE	P51-Q9-C	11/17/07	12:50	5.5	6.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
BLANK	TRIP	TRIP BLANK-AQ	11/17/07	7:30	--	--		X							
BLANK	FIELD	FIELD BLANK-AQ	11/17/07	8:00	--	--		X	X						
GW	GEOPROBE	P51-R3	11/17/07	8:30	15.0	20.0		X	X						
GW	GEOPROBE	P51-R3 DUPLICATE	11/17/07	8:30	15.0	20.0		X	X						
GW	GEOPROBE	P51-R5	11/17/07	9:00	11.0	16.0		X	X						
GW	GEOPROBE	P51-R7	11/17/07	9:30	10.0	15.0		X	X						
GW	GEOPROBE	P51-R9	11/17/07	10:00	11.0	16.0		X	X						
GW	GEOPROBE	P51-P9	11/17/07	10:30	5.0	10.0		X	X						
GW	GEOPROBE	P51-N9	11/17/07	11:00	7.0	12.0		X	X						
GW	GEOPROBE	P51-L9	11/17/07	11:30	3.0	8.0		X	X						
BLANK	TRIP	TRIP BLANK-SO	11/19/07	-	--	--		X							
SOIL	GEOPROBE	P51-O2-A	11/19/07	7:50	0.0	0.5	X								
SOIL	GEOPROBE	P51-O2-B	11/19/07	7:50	1.5	2.0	NA								
SOIL	GEOPROBE	P51-O2-C	11/19/07	8:00	5.5	6.0	X								

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-O3-A	11/19/07	8:30	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-O3-B	11/19/07	8:30	1.5	2.0	NA								
SOIL	GEOPROBE	P51-O3-C	11/19/07	8:40	8.0	8.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-O7-A	11/19/07	9:05	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-O7-B	11/19/07	9:05	1.5	2.0	NA								
SOIL	GEOPROBE	P51-O7-C	11/19/07	9:10	4.0	4.5	X	X							Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-O7-C DUPLICATE	11/19/07	9:10	4.0	4.5	X	X							Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-O7-D	11/19/07	9:25	8.0	8.5	X								TPHC collected due to elevated field screening results. Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-O8-A	11/19/07	9:50	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-O8-B	11/19/07	9:50	1.5	2.0	NA								
SOIL	GEOPROBE	P51-O8-C	11/19/07	10:05	7.0	7.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-O9-A	11/19/07	10:30	0.0	0.5	X								
SOIL	GEOPROBE	P51-O9-B	11/19/07	10:30	1.5	2.0	NA								
SOIL	GEOPROBE	P51-O9-C	11/19/07	10:40	6.5	7.0	X								
SOIL	GEOPROBE	P51-P3-A	11/19/07	11:00	0.5	1.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-P3-B	11/19/07	11:00	1.5	2.0	NA								

Table 3.12-2
Parcel 51 Sample and Analytical Summary

Media	Type	Field Sample #	Sample Date	Sample Time	Begin Depth	End Depth	TPHC	VO+15	BN+15	PCBs	TAL Metals	Cyanide	Mercury	Ammonia/ Nitrate/ Nitrite	COMMENTS/VARIANCES
SOIL	GEOPROBE	P51-P3-C	11/19/07	11:25	9.5	10.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-P4-A	11/19/07	11:50	0.5	1.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-P4-B	11/19/07	11:50	1.5	2.0	NA								
SOIL	GEOPROBE	P51-P4-C	11/19/07	12:00	6.5	7.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-P5-A	11/19/07	12:45	0.5	1.0	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-P5-B	11/19/07	12:45	1.5	2.0	NA								
SOIL	GEOPROBE	P51-P5-C	11/19/07	12:55	7.0	7.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-P6-A	11/19/07	13:30	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-P6-B	11/19/07	13:30	1.5	2.0	NA								
SOIL	GEOPROBE	P51-P6-C	11/19/07	13:35	3.0	3.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
BLANK	FIELD	FIELD BLANK-SO	11/19/07	13:40	--	--	X	X							
SOIL	GEOPROBE	P51-P7-A	11/19/07	13:50	1.0	1.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.
SOIL	GEOPROBE	P51-P7-B	11/19/07	13:50	1.5	2.0	NA								
SOIL	GEOPROBE	P51-P7-C	11/19/07	13:55	4.0	4.5	X								Sample depth in field documentation was recorded from top of soil. Reported bgs depths adjusted to account for surface asphalt and sub-base.

NA = Not Analyzed. Sample was collected for VOC analysis in the event TPHC results in the 0.0-0.5 ft bgs interval exceeded 1,000 mg/kg. TPHC results were less than 1,000 mg/kg in the 0.0-0.5 ft bgs interval, therefore no VOC analysis was required.
X = Sample analyzed for the indicated analytical parameter suite

Table 3.12-3
Parcel 51 – 750 Area Ground Penetrating Radar and Metal Detection Follow-up Survey Results

Anomaly	Anomaly Type:	Anomaly Re-Acquired by Small Area Metal Detection	Metal Detection (MD) Anomaly Size (feet)	GPR Anomaly Size (feet)	Description	Easting	Northing
P51_1	Differential	Yes	6 x 15	4 x 11	High-amplitude parabolic anomaly characteristic of UST.	617154	537902
P51_2	Differential	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	617182	537825
P51_3	Differential	No	N/A	N/A	Surface metal.	617182	537885
P51_4	Differential	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	617187	537802
P51_5	Differential	Yes	6 x 15	4 x 11	High-amplitude parabolic anomaly characteristic of UST.	617192	537962
P51_6	Differential	No	N/A	N/A	Surface metal.	617207	537986
P51_7	Differential	No	N/A	N/A	Surface metal.	617217	537891
P51_8	Differential	No	N/A	N/A	Surface metal.	617219	537902
P51_9	Differential	Yes	N/A	N/A	No MD anomaly found associated with EM anomaly.	617227	537805
P51_10	Differential	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	617256	537805
P51_11	Differential	No	N/A	N/A	Surface metal.	617265	537979
P51_12	Differential	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	617269	537792
P51_13	Differential	Yes	N/A	N/A	Surface metal.	617272	537949
P51_14	Differential	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	617273	537831
P51_15	Differential	Yes	6 x 10	4 x 6	High-amplitude parabolic anomaly characteristic of UST.	617278	537782
P51_16	Differential	No	N/A	N/A	Surface metal.	617287	538023
P51_17	Differential	Yes	< 3 x 3	< 3 x 3	Moderate-amplitude point target/anomaly, possible debris.	617293	537927
P51_18	Differential	No	N/A	N/A	Surface metal.	617304	537902

Anomaly	Anomaly Type:	Anomaly Re-Acquired by Small Area Metal Detection	Metal Detection (MD) Anomaly Size (feet)	GPR Anomaly Size (feet)	Description	Easting	Northing
P51_19	Differential	Yes	< 3 x 3	< 3 x 3	Moderate-amplitude point target/anomaly, possible debris.	617305	538014
P51_20	Differential	Yes	7 x 14	5 x 12	High-amplitude parabolic anomaly characteristic of UST.	617321	538033
P51_21	Differential	No	see notes	see notes	Area scanned with GPR only; no GPR anomaly associated with EM anomaly.	617324	537892
P51_22	Differential	Yes	4 x 4	see notes	Moderate-amplitude scattered near surface anomalies, possible debris.	617331	538023
P51_23	Differential	No	N/A	N/A	Surface metal.	617338	537852
P51_24	Differential	Yes	< 3 x 3	< 3 x 3	Moderate-amplitude point target/anomaly, possible debris.	617340	538040
P51_25	Differential	No	N/A	N/A	Surface metal.	617351	537985
P51_26	Differential	No	N/A	N/A	Surface metal.	617360	537904
P51_27	Differential	Yes	6 x 10	4 x 7	High-amplitude parabolic anomaly characteristic of UST.	617362	537965
P51_28	Differential	No	N/A	N/A	Surface metal.	617364	537861
P51_29	Differential	No	N/A	N/A	Surface metal.	617368	537877
P51_30	Differential	No	N/A	N/A	Surface metal.	617389	538069
P51_31	Differential	Yes	6 x 10	4 x 7	High-amplitude parabolic anomaly characteristic of UST.	617432	537873
P51_32	Differential	No	N/A	N/A	Surface metal.	617469	537675
P51_33	Differential	Yes	see notes	see notes	Metal associated with P51_32 (surface metal).	617471	537682
P51_34	Differential	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	617509	538069
P51_35	Differential	No	N/A	N/A	Surface metal.	617530	537612
P51_36	Differential	No	N/A	N/A	Surface metal.	617532	537564
P51_37	Differential	No	N/A	N/A	Surface metal.	617534	537577
P51_38		No	N/A	5 x 10	High-amplitude parabolic anomaly characteristic of UST.	617574	537953

Anomaly	Anomaly Type:	Anomaly Re-Acquired by Small Area Metal Detection	Metal Detection (MD) Anomaly Size (feet)	GPR Anomaly Size (feet)	Description	Easting	Northing
P51_39	Differential	Yes	10 x 15	see notes	Moderate-amplitude scattered near-surface anomalies, possible debris.	617574	537573
P51_40	Differential	Yes	15 x 15	see notes	Moderate-amplitude scattered near-surface anomalies, possible debris.	617605	537498
P51_41	Differential	Yes	< 3 x 3	< 3 x 3	Moderate-amplitude point target/anomaly, possible debris.	617643	538043
P51_42	Differential	No	N/A	5 x 11	High-amplitude parabolic anomaly characteristic of UST.	617647	537986
P51_43	Differential	Yes	see notes	see notes	Metal associated with P51_44(surface metal).	617667	537671
P51_44	Differential	No	N/A	N/A	Surface metal.	617671	537662
P51_45	Differential	No	N/A	N/A	Surface metal.	617698	538233
P51_46	Differential	Yes	5 x 7	see notes	Moderate-amplitude scattered near-surface anomalies, possible debris.	617713	537636
P51_47	Differential	No	N/A	9 x 15	High-amplitude parabolic anomaly characteristic of UST.	617716	538029
P51_48	Differential	Yes	< 3 x 3	< 3 x 3	Moderate-amplitude point target/anomaly, possible debris.	617718	537627
P51_49	Differential	Yes	N/A	N/A	Suspected utility.	617720	538218
P51_50	Differential	Yes	N/A	N/A	Suspected utility.	617733	537754
P51_51	Differential	No	N/A	N/A	Surface metal.	617737	538258
P51_52	Differential	No	N/A	N/A	Surface metal.	617740	537696
P51_53	Differential	Yes	N/A	N/A	Suspected utility.	617745	538178
P51_54	Differential	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	617749	537842
P51_55	Differential	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	617754	537803
P51_56	Differential	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	617758	537662
P51_57	Differential	No	N/A	N/A	Surface metal.	617770	537684

Anomaly	Anomaly Type:	Anomaly Re-Acquired by Small Area Metal Detection	Metal Detection (MD) Anomaly Size (feet)	GPR Anomaly Size (feet)	Description	Easting	Northing
P51_58	Differential	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	617771	537773
P51_59	Differential	Yes	see notes	see notes	Suspected utility vault associated with P51_57(surface metal).	617774	537698
P51_60	Differential	No	N/A	N/A	Surface metal.	617778	538100
P51_61	Differential	No	N/A	N/A	Surface metal.	617783	537729
P51_62	Differential	Yes	7 x 10	see notes	Moderate-amplitude scattered near-surface anomalies, possible debris.	617820	537691
P51_63	Differential	No	N/A	N/A	Surface metal.	617843	537765
P51_64	Differential	No	N/A	N/A	Surface metal.	617852	537594
P51_65	Differential	Yes	15 x 15	see notes	Moderate-amplitude scattered near-surface anomalies, possible debris.	617862	538247
P51_66	Differential	No	N/A	N/A	Surface metal.	617882	538092
P51_67	Differential	No	N/A	N/A	Surface metal.	617892	538321
P51_68	Differential	No	N/A	N/A	Surface metal.	617927	538225
P51_69	Differential	No	N/A	N/A	Surface metal.	617938	538092
P51_70	Differential	Yes	< 3 x 3	< 3 x 3	Moderate-amplitude point target/anomaly, possible debris.	617943	538232
P51_71	Differential	Yes	< 3 x 3	< 3 x 3	Moderate-amplitude point target/anomaly, possible debris.	617960	538163
P51_72	Differential	No	N/A	N/A	Surface metal.	617977	538134
P51_73	Differential	No	N/A	N/A	Surface metal.	618033	538058
P51_74	Differential	No	N/A	N/A	Surface metal.	618080	537918

Table 3.12-4
Parcel 51 – 600 and 1100 Area Ground Penetrating Radar and Metal Detection Follow-up Survey Results

Anomaly	Anomaly Type:	Anomaly Re-Acquired by Small Area Metal Detection	Metal Detection (MD) Anomaly Size (feet)	GPR Anomaly Size (feet)	Description	Easting	Northing
P51_75	Conductivity	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	618115	539165
P51_76	Both	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	618191	539094
P51_77	Both	Yes	10 x 10	see notes	Moderate-amplitude scattered near-surface anomalies, possible debris.	618244	539055
P51_78	Both	No	N/A	N/A	Surface metal.	618310	539068
P51_79	Both	No	N/A	N/A	Surface metal.	618321	539082
P51_80	Inphase	No	N/A	N/A	Surface metal.	618357	539123
P51_81	Both	No	N/A	N/A	Surface metal.	618385	539098
P51_82	Both	No	N/A	N/A	Surface metal.	618398	539103
P51_83	Conductivity	Yes	N/A	N/A	Suspected utility.	618446	539190
P51_84	Conductivity	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	618674	539404
P51_85	Conductivity	No	N/A	N/A	Surface metal.	618691	539404
P51_86	Conductivity	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	618697	539327
P51_87	Both	No	N/A	N/A	Surface metal.	618703	539206
P51_88	Inphase	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	618717	539278
P51_89	Both	No	N/A	N/A	Surface metal.	618723	539418
P51_90	Conductivity	No	N/A	N/A	No MD anomaly found associated with EM anomaly; suspected utility.	618768	539314
P51_91	Both	Yes	N/A	N/A	Suspected utility.	618823	539867
P51_92	Both	No	5 x 10	see notes	Moderate-amplitude scattered near-surface anomalies, possible debris.	618852	539731
P51_93	Both	No	N/A	N/A	Surface metal.	618861	539699
P51_94	Both	Yes	N/A	N/A	Suspected utility.	618887	539739

Anomaly	Anomaly Type:	Anomaly Re-Acquired by Small Area Metal Detection	Metal Detection (MD) Anomaly Size (feet)	GPR Anomaly Size (feet)	Description	Easting	Northing
P51_95	Conductivity	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	618889	539363
P51_96	Both	No	see notes	see notes	Parked cars. Area later scanned with TW-6; no anomalies detected.	618893	539627
P51_97	Both	Yes	11 x 12	see notes	Moderate-amplitude scattered near-surface anomalies, possible debris.	618903	539700
P51_98	Inphase	Yes	< 3 x 3	< 3 x 3	Moderate-amplitude scattered near-surface anomalies, possible debris.	618930	539676
P51_99	Both	No	N/A	N/A	Surface metal.	618963	539731
P51_100	Inphase	Yes	12 x 15	see notes	Moderate-amplitude scattered near-surface anomalies, possible debris.	618964	539686
P51_101	Both	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	619003	539480
P51_102	Conductivity	Yes	N/A	N/A	Suspected utility.	619009	539329
P51_103	Inphase	No	N/A	N/A	Surface metal.	619022	539568
P51_104	Both	No	N/A	N/A	Surface metal.	619031	539750
P51_105	Both	No	N/A	N/A	Surface metal.	619041	539629
P51_106	Both	No	N/A	N/A	Surface metal.	619044	539351
P51_107	Both	No	N/A	N/A	Surface metal.	619082	539605
P51_108	Both	No	N/A	N/A	Surface metal.	619094	539605
P51_109	Both	No	N/A	N/A	Surface metal.	617658	538510
P51_110	Inphase	Yes	7 x 12	5 x 10	High-amplitude parabolic anomaly characteristic of UST.	617676	538548
P51_111	Both	Yes	7 x 12	5 x 11	High-amplitude parabolic anomaly characteristic of UST.	617745	538585
P51_112	Both	No	N/A	N/A	Surface metal.	617759	538680
P51_113	Both	No	N/A	N/A	Surface metal.	617765	538558
P51_114	Both	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	617813	538597
P51_115	Both	No	N/A	N/A	Surface metal.	617836	538586

Anomaly	Anomaly Type:	Anomaly Re-Acquired by Small Area Metal Detection	Metal Detection (MD) Anomaly Size (feet)	GPR Anomaly Size (feet)	Description	Easting	Northing
P51_116	Both	No	N/A	N/A	Surface metal.	617850	538613
P51_117	Inphase	No	N/A	N/A	Suspected utility.	617867	538712
P51_118	Conductivity	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	618012	538708
P51_119	Conductivity	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	618077	538740
P51_120	Both	No	N/A	N/A	Surface metal.	618090	538851
P51_121	Conductivity	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	618147	538779
P51_122	Both	No	N/A	N/A	Suspected utility.	618215	538944
P51_123	Conductivity	No	N/A	N/A	No MD anomaly found associated with EM anomaly.	618219	538815

Table 3.12-5
Fort Monmouth Phase II Site Investigation, Parcel 51
Summary of TPHC Detected in Soil (mg/kg)

Sample ID	Lab ID	Sample Date	Depth (ft. bgs)	Result	MDL	NJDEP NRDCSCC[2] (mg/kg)	NJDEP IGWSCC[3] (mg/kg)
P51-B11-A	7044131	11/05/07	1.0-1.5	648	74	10000	10000
P51-C10-A	7044124	11/05/07	0.0-0.5	741	73	10000	10000
P51-C10-C	7044126	11/05/07	6.0-6.5	103	82	10000	10000
P51-C11-A	7044121	11/05/07	0.0-0.5	433	74	10000	10000
P51-D10-A	7044118	11/05/07	0.5-1.0	243	73	10000	10000
P51-D11-A	7043831	11/02/07	0.5-1.0	857	71	10000	10000
P51-D11-C	7043833	11/02/07	5.5-6.0	115	80	10000	10000
P51-D12-A	7043828	11/02/07	0.0-0.5	149	71	10000	10000
P51-E10-C	7043827	11/02/07	3.0-3.5	568	75	10000	10000
P51-E11-A	7043821	11/02/07	0.5-1.0	213	73	10000	10000
P51-F7-A	7043818	11/02/07	1.0-1.5	496	71	10000	10000
P51-G12-C	7044405	11/06/07	4.5-5.0	273	75	10000	10000
P51-G12-D	7044406	11/06/07	6.0-6.5	7487	83	10000	10000
P51-G12-D DUP	7044402	11/06/07	6.0-6.5	7524	82	10000	10000
P51-H10-A	7043029	10/31/07	0.0-0.5	150	73	10000	10000
P51-H11-A	7043026	10/31/07	1.0-1.5	200	75	10000	10000
P51-H11-C	7043028	10/31/07	4.5-5.0	98	71	10000	10000
P51-H12-A	7043023	10/31/07	0.0-0.5	99	77	10000	10000
P51-H12-C	7043025	10/31/07	4.0-8.0	3973	74	10000	10000
P51-H7-A	7043039	10/31/07	0.0-0.5	82	73	10000	10000
P51-H9-C	7043035	10/31/07	5.0-5.5	201	78	10000	10000
P51-I2-A	7043020	10/31/07	0.0-0.5	115	74	10000	10000
P51-I2-C	7043022	10/31/07	5.5-6.0	123	75	10000	10000
P51-I4-A	7043017	10/31/07	0.0-0.5	86	71	10000	10000
P51-I4-C	7043019	10/31/07	2.0-2.5	105	73	10000	10000
P51-I5-C	7044111	11/05/07	3.5-4.0	94	71	10000	10000
P51-I6-A	7043015	10/31/07	0.0-0.5	110	73	10000	10000
P51-I6-B	7043016	10/31/07	1.5-2.0	106	71	10000	10000
P51-I7-A	7043012	10/31/07	0.0-0.5	100	73	10000	10000
P51-I7-C	7043014	10/31/07	2.0-2.5	149	71	10000	10000
P51-I8-A	7043009	10/31/07	0.0-0.5	298	76	10000	10000
P51-I8-C	7043011	10/31/07	3.5-4.0	126	71	10000	10000
P51-I9-C	7043008	10/31/07	3.5-4.0	148	75	10000	10000
P51-J1-A	7045403	11/09/07	0.0-0.5	83	73	10000	10000
P51-J4-A	7045412	11/09/07	0.0-0.5	106	74	10000	10000
P51-J5-A	7045415	11/09/07	0.0-0.5	280	73	10000	10000
P51-K1-A	7044603	11/08/07	0.0-0.5	144	71	10000	10000
P51-K2-A	7044606	11/08/07	0.0-0.5	338	70	10000	10000
P51-K3-A	7044609	11/08/07	0.0-0.5	487	72	10000	10000
P51-K4-A	7044612	11/08/07	0.0-0.5	497	73	10000	10000
P51-K5-A	7044615	11/08/07	0.0-0.5	400	71	10000	10000
P51-K6-A	7044618	11/08/07	0.0-0.5	338	72	10000	10000
P51-K7-A	7044622	11/08/07	0.0-0.5	701	71	10000	10000

Table 3.12-5
Fort Monmouth Phase II Site Investigation, Parcel 51
Summary of TPHC Detected in Soil (mg/kg)

Sample ID	Lab ID	Sample Date	Depth (ft. bgs)	Result	MDL	NJDEP NRDCSCC[2] (mg/kg)	NJDEP IGWSCC[3] (mg/kg)
P51-K7-B	7044623	11/08/07	1.5-2.0	90	72	10000	10000
P51-K8-A	7044624	11/08/07	0.0-0.5	465	71	10000	10000
P51-K9-A	7044627	11/08/07	0.0-0.5	540	71	10000	10000
P51-L4-A	7045912	11/13/07	1.0-1.5	166	72	10000	10000
P51-L5-A	7045915	11/13/07	1.0-1.5	82	72	10000	10000
P51-L6-A	7045918	11/13/07	1.0-1.5	97	75	10000	10000
P51-L7-A	7045921	11/13/07	1.0-1.5	98	74	10000	10000
P51-L8-A	7045925	11/13/07	1.0-1.5	147	71	10000	10000
P51-M3-A	7046309	11/14/07	1.0-1.5	119	74	10000	10000
P51-M6-A	7046318	11/14/07	1.0-1.5	98	74	10000	10000
P51-M7-A	7046703	11/15/07	1.0-1.5	118	70	10000	10000
P51-M8-A	7046706	11/15/07	1.0-1.5	320	70	10000	10000
P51-N3-C	7046720	11/15/07	5.5-6.0	1498	74	10000	10000
P51-O7-C DUP	7047411	11/19/07	4.0-4.5	1188	71	10000	10000
P51-O7-C	7047402	11/19/07	4.0-4.5	1367	71	10000	10000
P51-R4-A	7047203	11/17/07	0.0-0.5	156	70	10000	10000

[1] NJDEP Residential Direct Contact Soil Cleanup Criteria (NRDCSCC) per NJAC 7:26D, 1999.

[2] NJDEP Non-Residential Direct Contact Soil Cleanup Criteria (NRDCSCC) per NJAC 7:26D, 1999.

[3] NJDEP Impact to Groundwater Soil Cleanup Criteria (IGWSCC) per NJAC 7:26D, 1999.

DUP = Duplicate sample.

ft. bgs = Feet below ground surface.

MDL = Method detection limit

mg/kg = milligram per kilogram.

Table 3.12-6
Fort Monmouth Phase II Site Investigation, Parcel 51
Summary of Analytical Parameters Detected in Soil (mg/kg)

			Analytical Results				
		Sample ID:	P51-G12-D	P51-G12-D DUP	P51-N3-C	P51-O7-C	P51-O7-C DUP
		Lab ID:	7044406	7044402	7046720	7047411	7047402
		Date Sampled:	11/6/2007	11/6/2007	11/15/2007	11/19/2007	11/19/2007
		Depth (ft. bgs):	6.0-6.5'	6.0-6.5'	5.5-6.0'	4.0-4.5'	4.0-4.5'
Chemical	NRDCSCC[2]	IGWSCC[3]	Result	Result	Result	Result	Result
Volatiles							
Acetone	1,000	100	0.360 U	0.320 U	**0.110 J**	**0.480 B**	**0.520 B**
Ethylbenzene	1,000	100	**0.730**	**0.560**	0.300 U	0.250 U	0.270 U
Xylenes (Total)	1,000	67	**1.900**	**1.400**	0.980 U	**0.096 J**	**0.095 J**

[1] NJDEP Residential Direct Contact Soil Cleanup Criteria per NJAC 7:26D, 1999. Beryllium, Copper and Lead criteria per NJAC 7:26D, 2008.

[2] NJDEP Non-Residential Direct Contact Soil Cleanup Criteria per NJAC 7:26D, 1999. Beryllium, Copper and Lead criteria per NJAC 7:26D, 2008.

[3] NJDEP Impact to Groundwater Soil Cleanup Criteria per NJAC 7:26D, 1999.

DUP = Duplicate Sample.

ft. bgs = Feet below ground surface.

B = The compound was found in the associated method blank as well as in the sample.

D = Sample was diluted.

E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.

J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.

U = The compound was analyzed for but not detected.

NT = Not tested.

NLE = No limit established.

mg/kg = milligram per kilogram.

Bold = Analyte was detected.

Shaded = Concentration exceeds level of concern.
(Surface soil compared to NRDCSCC. Subsurface soil compared to IGWSCC when available, otherwise compared to NRDCSCC).

Table 3.12-7
Fort Monmouth Phase II Site Investigation, Parcel 51
Summary of Analytical Parameters Detected in Groundwater (µg/L)

		Analytical Results										
	Sample ID:	P51-A10	P51-A12	P51-C12	P51-C12 DUP	P51-E12	P51-G12	P51-I3	P51-I3 DUP	P51-I5	P51-I10	P51-K1
	Lab ID:	7044704	7044705	7044706	7044703	7044707	7044708	7044305	7044303	7044306	7044307	7045504
	Date Sampled:	11/8/2007	11/8/2007	11/8/2007	11/8/2007	11/8/2007	11/8/2007	11/6/2007	11/6/2007	11/6/2007	11/6/2007	11/10/2007
	Screened Interval (ft. bgs):	5-10'	5-10'	5-10'	5-10'	5-10'	5-10'	3-8'	3-8'	3-8'	3-8'	10-15'
Chemical	Quality Criteria[1]	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatiles												
Acetone	6000	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	**6.78**	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
Benzene	1	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	**0.10 J**	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Carbon disulfide	700	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Chloroform	70	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Chloromethane (Methyl chloride)	NLE	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
Ethylbenzene	700	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	**1.74**	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Methyl ethyl ketone (2-Butanone)	300	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Methyl tertiary butyl ether (MTBE)	70	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Tertiary butyl alcohol	100	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U
Toluene	600	0.27 U	**1.03**	**0.65**	**0.54**	**1.07**	**2.00**	**0.37**	**0.82**	**0.29**	**0.38**	**0.53**
Xylenes (Total)	1000	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	**2.15**	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Semi-Volatiles												
2-Methylnaphthalene	30*	**3.28**	1.01 U	1.01 U	1.01 U	1.01 U	**40.51**	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U
bis(2-Ethylhexyl)phthalate	3	1.28 U	1.28 U	1.28 U	1.28 U	**0.95 J**	1.28 U	1.28 U	1.28 U	1.28 U	**2.55**	**1.42**
Dibenzofuran	NLE	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Di-n-butylphthalate	700	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Fluorene	300	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	**1.97**	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U
Naphthalene	300	**1.00**	0.76 U	0.76 U	0.76 U	0.76 U	**23.40**	0.76 U	0.76 U	**4.01**	0.76 U	0.76 U
n-Nitrosodiphenylamine	10	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	**2.89**	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U
Phenanthrene	NLE	**1.94**	0.81 U	0.81 U	0.81 U	0.81 U	**3.75**	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U

[1] Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criterion (GWQC) per NJAC 7:9-6, 2005 (* Interim GWQC).

DUP = Duplicate Sample.

ft. bgs = Feet below ground surface.

B = The compound was found in the associated method blank as well as in the sample.

D = Sample was diluted.

E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.

J = Mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.

U = The compound was analyzed for but not detected.

NT = Not tested.

NLE = No limit established.

Bold = Analyte was detected.

Shaded = Concentration exceeds Quality Criteria.

µg/L = micrograms per liter.

Table 3.12-7
Fort Monmouth Phase II Site Investigation, Parcel 51
Summary of Analytical Parameters Detected in Groundwater (µg/L)

		Analytical Results										
	Sample ID:	P51-K3	P51-K5	P51-K7	P51-K7 DUP	P51-K9	P51-L9	P51-N9	P51-P9	P51-R3	P51-R3 DUP	P51-R9
	Lab ID:	7045505	7045506	7045507	7045503	7045508	7047110	7047109	7047108	7047104	7047103	7047107
	Date Sampled:	11/10/2007	11/10/2007	11/10/2007	11/10/2007	11/10/2007	11/17/2007	11/17/2007	11/17/2007	11/17/2007	11/17/2007	11/17/2007
	Depth (ft. bgs):	10-15'	10-15'	10-15'	10-15'	10-15'	3-8'	7-12'	5-10'	15-20'	15-20'	11-16'
Chemical	Quality Criteria[1]	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatiles												
Acetone	6000	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	**9.31 B**	0.85 U	**1.99 B**	**1.12 B**	0.85 U	**3.56 B**
Benzene	1	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Carbon disulfide	700	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	**0.17 J**	0.44 U	**0.50**	0.44 U	0.44 U	**0.23 J**
Chloroform	70	**0.74**	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Chloromethane (Methyl chloride)	NLE	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	**0.34 J**
Ethylbenzene	700	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Methyl ethyl ketone (2-Butanone)	300	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	**1.58**	0.14 U	0.14 U	0.14 U	0.14 U	**0.76**
Methyl tertiary butyl ether (MTBE)	70	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	**4.31**	**33.79**	0.23 U	0.23 U	**15.92**
Tertiary butyl alcohol	100	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U	**4.03**	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U
Toluene	600	**0.35**	**0.77**	0.27 U	0.27 U	**0.22 J**	**0.45**	**0.25 J**	**0.69**	0.27 U	0.27 U	0.27 U
Xylenes (Total)	1000	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Semi-Volatiles												
2-Methylnaphthalene	30*	1.01 U	**2.61**	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U	1.01 U
bis(2-Ethylhexyl)phthalate	3	1.28 U	1.28 U	**4.47**	**3.53**	1.28 U	1.28 U	1.28 U	**3.49**	1.28 U	1.28 U	1.28 U
Dibenzofuran	NLE	0.69 U	**0.30 J**	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Di-n-butylphthalate	700	0.92 U	**0.41 J**	**0.25 J**	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Fluorene	300	0.71 U	0.71 U	**0.42 J**	**0.51 J**	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U
Naphthalene	300	0.76 U	**18.24**	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
n-Nitrosodiphenylamine	10	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U
Phenanthrene	200	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U

[1] Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criterion (GWQC) per NJAC 7:9-6, 2005.

DUP = Duplicate Sample.

ft. bgs = Feet below ground surface.

D = Sample was diluted.

E = The compound's concentration exceeds the calibration range of the instrument for that specific analysis.

JB = The concentration should be considered estimated due to blank contamination.

UB = The presence of the analyte in the sample is negated due to blank contamination.

NT = Not tested.

NLE = No limit established.

Bold = Analyte was detected.

Shaded = Concentration exceeds Quality Criteria.

µg/L = micrograms per liter.

Sample ID	Media	Depth (ft bgs)	Compound	Concentration (ug/L)	Criteria	Criteria Value (ug/L)
P51-G12	GW	5-10'	2-Methylnaphthalene	40.51	NJ GWQC	30

51(2)HS/PS/PR

LEGEND

- Geoprobe Soil Sample Location
- Geoprobe Soil & Groundwater Sample Location
- Generalized Groundwater Flow Direction. Direction of Generalized Groundwater Flow derived from qualitative evaluation of surface topography, surface water features, and pre-existing IRP site groundwater potentiometric maps where available.
- Geophysical Investigation Area - Electromagnetic (EM) and Ground Penetrating Radar (GPR)
- Building
- Installation Boundary

ECP PARCEL CATEGORY DEFINITIONS

2 Areas where only release or disposal of petroleum products has occurred.

N

SCALE: 0 150 300 600 Feet

BRAC PARCEL LABEL DEFINITIONS

8(2)PS
- CONTAMINATION DESCRIPTION
  - HS - Hazardous Substance Storage
  - HR - Hazardous Substance Release
  - PS - Petroleum Storage
  - PR - Petroleum Release
  - (P) - Possible Release or Disposal
- CATEGORY NUMBER
- PARCEL NUMBER

Base Realignment and Closure 2005

U.S. Army Corps of Engineers

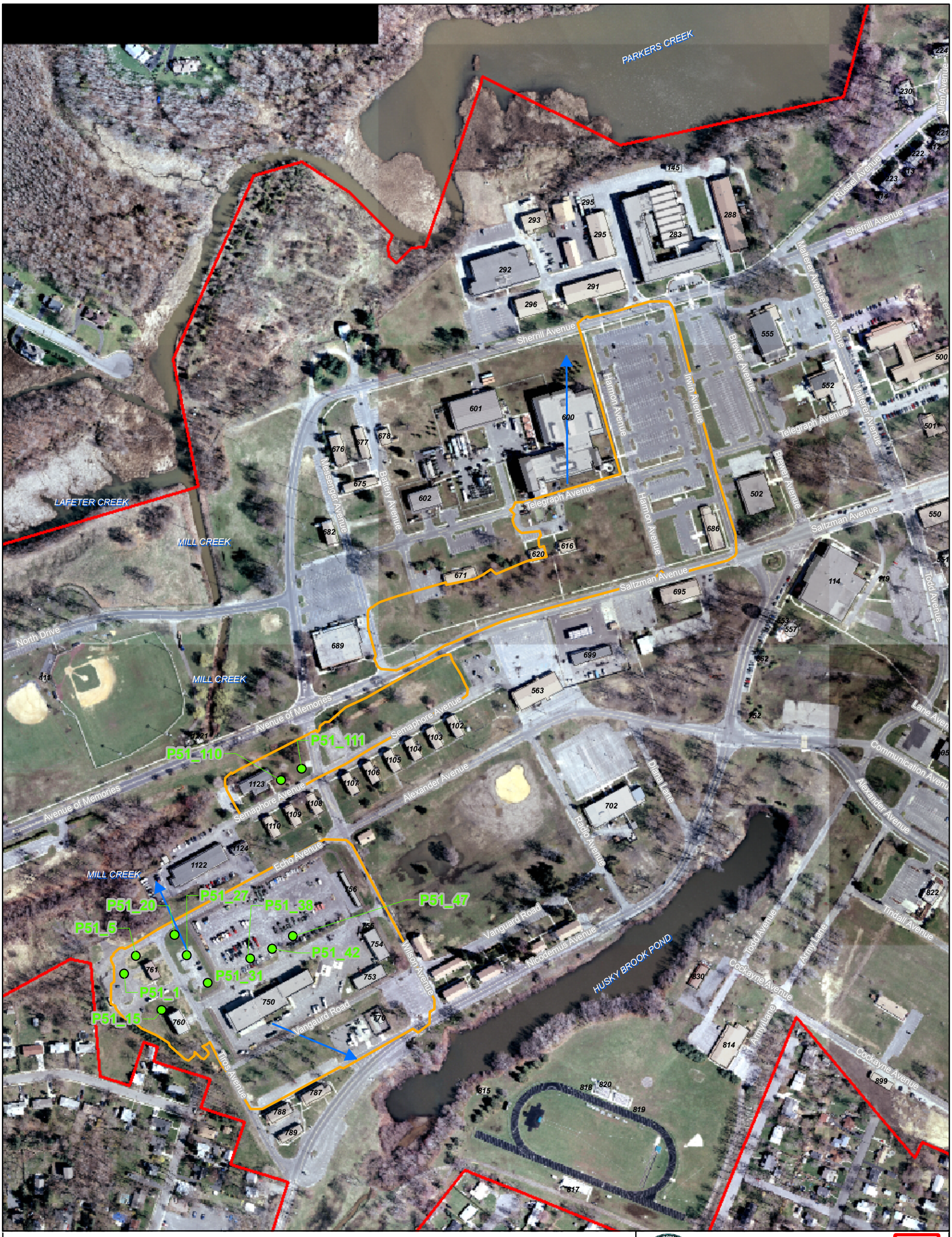
Shaw® Shaw Environmental, Inc.

FIGURE 3.12-1
FORT MONMOUTH ECP
SITE INVESTIGATION

PARCEL 51 SAMPLE LOCATIONS AND CONSTITUENTS OF CONCERN

MAIN POST
FORT MONMOUTH
NEW JERSEY

ArcGIS File: MP_Fig3_12-1_SI_P51_Exceeds_SampLoc.mxd (7/14/2008 12:49:34 PM)



LEGEND

- Subsurface Metallic Object (Suspected UST)
- Generalized Groundwater Flow Direction. Direction of Generalized Groundwater Flow derived from qualitative evaluation of surface topography, surface water features, and pre-existing IRP site groundwater potentiometric maps where available.
- Geophysical Investigation Area - Electromagnetic (EM) and Ground Penetrating Radar (GPR)
- Building
- Installation Boundary

N

SCALE:

0 150 300 600 Feet

Base Realignment and Closure 2005

U.S. Army Corps of Engineers

Shaw® Shaw Environmental, Inc.

FIGURE 3.12-2

FORT MONMOUTH ECP
SITE INVESTIGATION

PARCEL 51
SUSPECTED UST LOCATIONS

MAIN POST
FORT MONMOUTH
NEW JERSEY

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